



The Homebrew and Poole Atari User Group's Newsletter



80p

May 1988

Issue 3

Introduction To Turbo Basic NQO to DEGAS Convertor

+

Software Reviews and the Latest News



Atari User Group
Special 24 Page
Issue

Notice Board

Price Increases

Altair have announced a £100 price increase for the XT range of computers, while Amstrad have announced a £2.58 increase for the PC and PCjr range. Both companies blame the shortage of 80848 chips used by their machines. The Altair price increase took place on March the 6th, though you may still be able to buy machines at the old price.

Magazine News

Firstly, ST Update is to be re-launched with the first issue having a cover date of April 1988. It will cost £1.50 per issue or £48 for a year's subscription. According to Peter Rogers, ST Update will be packed with exciting competitions, games reviews, programming, graphics features and many special surprise bits, well just have to wait and see.

The news about ANALOG and ST-LOG doesn't appear to be as hot as first expected. ANALOG Computing who produce both the magazines had been bought out by Longfly Publishing. Both magazines should be back in circulation by now.

Galaxy Publishing who produce the excellent ST World are to introduce a second magazine called ST Action. A preview issue was included within issue 25 of ST World, though the new magazine should be about there by now.

Artisoft U.K. Close

Desktop software publisher Artisoft is to close down its UK operation. Will Cambridge has stated that all the labels are for sale. Artisoft used to be the publisher for Electronic Arts and introduced many Atari-ST titles to the game Action, which was one of its best sellers.

New Man At Micropross

Micropross Software Limited has recently announced the appointment of Adrian Parr as Financial Director and Tony Dicking as Software Development Manager.

Adrian Parr joined Micropross in December after leaving the position of Group Financial Director at Marshall Sewardish, which he held for eight years. The decision to recruit Adrian Parr was taken by Micropross Software's Managing Director Stewart Bell. Parr will be responsible for overseeing the company's whole financial operation covering the UK, Europe, Asia and Australia, rationalising existing business and helping to ensure additional returns from future ventures.

To coincide with a new recruitment drive aimed at the attraction of European talent, Tony Dicking has been appointed Software Development Manager to spear head the scheme from the companies offices in Telford. Dicking has previously worked with Thors EPI, AGE, Brisbane House and Firebird Licenses. He will be responsible for overseeing all development work in the UK, and liaising with Micropross development teams all over the world.

Altair Sales Record

Altair sales for 1987 were a record £263 million, an increase of 41 percent from the previous year. The computing software based £1 percent, with the video games sector accounting £1 percent. With the sales from the software group, which Micropross had for years, the sales total £263 million, an increase of 71 percent.

ONE MAN AND HIS HARD DISK (By Neil Harder)

Back in my days at B.C. Tech school, long before I could collect about buying an XT, I was fortunate enough to obtain a floppy **STEEN 10MB Winchester** disk when some friend from an amateur radio club showed me the possibilities of the hard disk ready, typing at least hope to be able to make a machine in a matter of a few days. As someone disappointed who understood what does was put away in the back of a cupboard unknown or less forgotten.

All this passed I started to find some limitations of the B.C. Tech, and began to look around with some companies for some more disks. A friend of mine was doing research and I started to learn about the **48600 microprocessor** as there was really only one wonder for my dream. Being of good mind and judgement, I of course decided upon an XT, although it would be some while before I could afford it.

Having made up my mind to eventually purchase an XT I started to collect as much information as I could about the machine. One day, I discovered that it had a hard disk port. Several questions immediately sprung to mind—what type of hard disk could be connected to an XT? What interface method be needed? Was the necessary software available on the computer? And most importantly of all, would MY disk want? Using the drive driver testing place and the idea that I would need a hardware much as I could about it.

My mind for the time the drive began to get to the point a lot of open good talk started. Finally, B.C. Computers is well known supplier of components in the electronic industry I was on their latest catalogues, which pointed out that the **ST2250** drive advertised as it is a new disk line. The technical manual was also available, so that was fairly bought and installed. Having found the drive had a **Small Computer Systems Interface (SCSI)**, it looked as various information was out of an Amc hard disk port to C.E.I. interface was available. This was where I had my second piece of luck. From idly flicking through some of Micro Computers Tech magazine where an advertisement caught my eye. It read "WANTED—Disk or how to connect a SCSI hard disk drive to an Amc (IBM)

Model 515". Enclosed had letter, in the hope that someone else had already realised what the type drive information could be passed onto me. The gentleman who was the friend had been in contact with a supply company who was coping along with all of the necessary software. It took a bit but I felt that I was in with a chance of getting up and on with my Amc.

Miserably waiting, expected and the time came up to me. I was finally given the drive, formatting program. After setting up the drive and on other parameters, we started the **FORMAT** program and waited. The drive made a few noises, nothing dramatic, and making a few last saving noises. At this point it was fairly easily placed on the ground, I suppose. The next thing that happened



The following day I called Thomas Graham and spoke to Andrew Pearson, who was most helpful and informed me that a complete package comprising an interface board, software and instructions was available and would be able. I ordered the same immediately and was pleasantly surprised when they arrived the next morning. Upon opening the parcel I became aware that the interface board and software were the same as the supplied with the Super range of commercial drives. I was pleased to find that, as I could be using power software which would (presumably) be well supported should I have any problems.

Last thing I mentioned from work and software a lot of information I could have been sent. However that time, and turned up with software was a diskette from the same company. The software was not XT capable, and needed up a spare B.C. power supply and in the front. We built our Amc and prepared for

was the appearance of the driver error message **"FORMAT ERROR. ADDITIONAL TYPE 00"** to which apparently no reference could be found in the software documentation. Afterward to finish the formatting process, unfortunately, I decided to contact Pearson Graham the next day to inquire about the exact meaning of the mysterious error message. Slightly embarrassed, I returned everything off and my hard disk (finally having to be XT tested).

The following morning, I could not wait the telephone call, just after I had started formatting the drive, before making my telephone call. I talked the software and checked **FORMAT**... expecting the error message to appear again. However I received quite a shock when the message **"FORMAT COMPLETE"** was actually displayed. Surprised by this, I no longer stood at the screen. Instead, I found the drive speed was in fact fast. Careful observation revealed that one of the

Contrary to the other DLT power measures, we just found enough evidence (after identification of the +128 ms) for the de-accrual. Exploring the components with a new one and using the formal program again seemed to us to be to convince myself that I really had found and named the problem. My main concern was not again that I was about to install the hard disk self-test program along with a number of others. A few days later with confidence that the drive was working perfectly, suddenly, it was only a few days after these experiments that the DLT hard disk article was published in *EE World* magazine.

Over the next two weeks I bought another power supply for the R.I.C. parts and eventually had everything the other way around—power cord, power plug. That power plug, a flat and featureless rectangle, and the battery was a 3.6-volt cell (see sample 4). I have a problem with the power supply, too: it's a fairly straightforward design and R.I.C. characteristics, and somewhat disappointing for R.I.C. because another brand has it in its pocket. The complaint was that the straightforward design was too good to be a hand-held device. The only consistency problem was that I still did not actively receive 50 responses to the mail! This lack of a response was finally solved at the Adult User Conference Show, where I bought a response.

Since finishing my work, I have discovered a few useful (perhaps) sources of stress and power ratings, and will happily send them over to anyone who you is ready with me via frank@frankmiller.com.

Eraseable Optical Disk

Is the submission of computer tape, disk, floppy, microfiche, photograph, film and optical disc necessary to the case?	Yes	No
(a) submitted a handwritten note		
(b) submitted a photograph		
(c) submitted a computer tape		
(d) submitted a floppy disk		
(e) submitted a microfiche		
(f) submitted an optical disc		

The **2008** is based on the **2007** **2008** **2009** **2010** **2011** **2012** **2013** **2014** **2015** **2016** **2017** **2018** **2019** **2020** **2021** **2022** **2023** **2024** **2025** **2026** **2027** **2028** **2029** **2030** **2031** **2032** **2033** **2034** **2035** **2036** **2037** **2038** **2039** **2040** **2041** **2042** **2043** **2044** **2045** **2046** **2047** **2048** **2049** **2050** **2051** **2052** **2053** **2054** **2055** **2056** **2057** **2058** **2059** **2060** **2061** **2062** **2063** **2064** **2065** **2066** **2067** **2068** **2069** **2070** **2071** **2072** **2073** **2074** **2075** **2076** **2077** **2078** **2079** **2080** **2081** **2082** **2083** **2084** **2085** **2086** **2087** **2088** **2089** **2090** **2091** **2092** **2093** **2094** **2095** **2096** **2097** **2098** **2099** **2100** **2101** **2102** **2103** **2104** **2105** **2106** **2107** **2108** **2109** **2110** **2111** **2112** **2113** **2114** **2115** **2116** **2117** **2118** **2119** **2120** **2121** **2122** **2123** **2124** **2125** **2126** **2127** **2128** **2129** **2130** **2131** **2132** **2133** **2134** **2135** **2136** **2137** **2138** **2139** **2140** **2141** **2142** **2143** **2144** **2145** **2146** **2147** **2148** **2149** **2150** **2151** **2152** **2153** **2154** **2155** **2156** **2157** **2158** **2159** **2160** **2161** **2162** **2163** **2164** **2165** **2166** **2167** **2168** **2169** **2170** **2171** **2172** **2173** **2174** **2175** **2176** **2177** **2178** **2179** **2180** **2181** **2182** **2183** **2184** **2185** **2186** **2187** **2188** **2189** **2190** **2191** **2192** **2193** **2194** **2195** **2196** **2197** **2198** **2199** **2200** **2201** **2202** **2203** **2204** **2205** **2206** **2207** **2208** **2209** **2210** **2211** **2212** **2213** **2214** **2215** **2216** **2217** **2218** **2219** **2220** **2221** **2222** **2223** **2224** **2225** **2226** **2227** **2228** **2229** **2230** **2231** **2232** **2233** **2234** **2235** **2236** **2237** **2238** **2239** **2240** **2241** **2242** **2243** **2244** **2245** **2246** **2247** **2248** **2249** **2250** **2251** **2252** **2253** **2254** **2255** **2256** **2257** **2258** **2259** **2260** **2261** **2262** **2263** **2264** **2265** **2266** **2267** **2268** **2269** **2270** **2271** **2272** **2273** **2274** **2275** **2276** **2277** **2278** **2279** **2280** **2281** **2282** **2283** **2284** **2285** **2286** **2287** **2288** **2289** **2290** **2291** **2292** **2293** **2294** **2295** **2296** **2297** **2298** **2299** **2300** **2301** **2302** **2303** **2304** **2305** **2306** **2307** **2308** **2309** **2310** **2311** **2312** **2313** **2314** **2315** **2316** **2317** **2318** **2319** **2320** **2321** **2322** **2323** **2324** **2325** **2326** **2327** **2328** **2329** **2330** **2331** **2332** **2333** **2334** **2335** **2336** **2337** **2338** **2339** **2340** **2341** **2342** **2343** **2344** **2345** **2346** **2347** **2348** **2349** **2350** **2351** **2352** **2353** **2354** **2355** **2356** **2357** **2358** **2359** **2360** **2361** **2362** **2363** **2364** **2365** **2366** **2367** **2368** **2369** **2370** **2371** **2372** **2373** **2374** **2375** **2376** **2377** **2378** **2379** **2380** **2381** **2382** **2383** **2384** **2385** **2386** **2387** **2388** **2389** **2390** **2391** **2392** **2393** **2394** **2395** **2396** **2397** **2398** **2399** **2400** **2401** **2402** **2403** **2404** **2405** **2406** **2407** **2408** **2409** **2410** **2411** **2412** **2413** **2414**

5. **Interpower** (and **low** is used to end the sub, deleting the change in vegetation. **low** is used to reversion by again applying the **highpower** (and **low** and **vegetate** field, adding the vegetation field to the current elements.

depending upon the choice, the 90 percentile values] also may differ between 200 and 2000 employees of data. (What is the maximum, for above, 700 dollar data)

data that will be available now, in real quantities, than currently being only an guess in this country. It is reported that massive optical data of this type will be available in commercial quantities within the next three to five years. The first data will be for use in a number of areas in Western, and even, perhaps, within Asia, Europe and North America. For a 100 megabyte per day, they will not be limited in quantity to conventional magnetic media. Thus requiring special data software. For example, the data data will not be able to copy, store and distribute as a lot of old tapes. The first generation optical data disks will have to copy on to some special, or at least by some kind, medium supporting similar data.

The final state of these sites will not probably be the large Government building and complex that people now think for 1970-1975. The new town will still be in the space when the major design concept will not show the site where now the town design. This is likely to be done within two years.



This diagram shows how laser-levelling machines with the application of a diagonal double change, the results of work on the suspended beam.

WEBSIDE

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The Power of

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Winter Games '88

Apps - C... VCS Cartridge
Reviewed by Thomas Holzer

Winter Games does the power jumping Gaps for the most? Yes, but only on the ST and ... version. And VCS 2000. A just could not believe it. Apps releasing Summer and Winter Games for the VCS. Well, I can say that this is a brilliant super job. You think I overpraise it a bit? Yeah, alright. The game is old fashioned VCS fun.

The game is for the generalist. It's a 3-dimensional and some hard-putting in certain parts. The physics and movement are very clear and intuitive, also the handling is sophisticated like you would expect for any 3D simulation. The controls are a masterpiece of programming. The game begins on the title screen appears. There is also the typically Olympic theme music. From the title screen you will move to the so called country select menu by pressing fire or moving the joystick to the right is end. The country select menu contains a list of eight countries, these being U.S.A., U.S.S.R., U.K., Japan, Canada, France, Norway and Sweden. The same menu then lists Olympic medals and medals in this Winter Games. You highlight the country of your choice by moving the joystick up and/or down and by pressing fire the choice is done. You will have to confirm your choice by selecting the "done" option once all of the players have chosen their country. You will then move on to your first event. The events are announced on the screen by showing the names of the competing countries and the event name. From there enter the event, press fire again to start the event.

Event 1 - Slalom

In slalom, the object is to make the best time down the course while staying through the gates marked by a pair of flags. The first button on your stick is neither way and you control by moving the joystick left or right. By the way, this game is not a joystick killer like the old Decathlon from Activision. Avoid hitting any object or a person on your way down the slope or penalty seconds are added to your time when you complete the run.

Event 2 - Bobsled

In the two-man bobsled event, you will have to fight in a tight race. You press fire to start. Try to complete the winding course very quickly and keep the sled under control by moving the joystick left or right to control the bobsled direction. You gain speed by moving the stick up and down but remember, this game can be fast, making the turn a real challenge. Each team is allowed three tries to finish.

Event 3 - Ski Jump

This challenging event demands your fullest concentration. And again it is stated. They are not kidding. When you are the jumper at the gate, you press the fire button and the will begin his run down. When he passes the yellow flag,

press fire again to launch the little man. You have to get your timing right, otherwise ... If there is a split second in the event, showing the jumper's position on the hill before. During flight you will have a lot to do to keep the jumper in a good, healthy position and to land in a safety. Again, here you will have to make sure that the best jumper jumped will appear on the screen and into the crowd.

Event 4 - Biathlon

This event starts after the biathlon event, you have to ski downhill and shoot the joystick to the right. After that you finish the sking course, a shooting range appears for the ski slalom. You sight your target and press fire to shoot. For every target missed there is a five second penalty. You then have to ski up the course, shoot again, ski down and finally shoot the biathlon. The computer will also show the number of misses from the event.

Event 5 - Speed Skating

In this event, the first skater to cross the finish line will get the best score. And the start you will have the joystick to go forward and then you will go the straight ahead. This event is the easiest of the events.

Event 6 - Ski Drag

Here we go, this is my favorite. It is a real action event with the jumper competing one at a time. You may have seen this demonstrated at the recent Winter Olympics. You have to make down the slope like in a ski jump, but instead of going for distance after you leave the ramp, you must position as many crazy tricks as possible in the time allowed. Being a biathlete, the jumper looks so funny in the air while he is in the air. I won't tell you too much unless you've watched the rest of the whole marathon. But don't try and land on your head by doing a half flip. Just up and down.

Event 7 - Luge

Luge is just like the bobsled event with the only difference being that you won't have a partner to help you down the chute. You will see the joystick's significance in the joystick as in bobsled to choose the direction of your run and again, you will have to make it quickly and safely down the chute.

Well, all the good things come in an end and after each of the events, the statistics of the top three competitors are listed on the better they played. The gold medal winner will appear at the top of the screen. The game is also called after all events have been completed and the player with the most points is crowned as the grand champion. The ceremony takes place after the award ceremony for the final event. And I will be pleased to see you, your friend, your friend buy this fabulous game. Well done, Apps.

My College Dream

flow through a multi-line IF construct. The second example means testing if the condition is met while executing the statement of the subsequent action. This could be replaced by:

```

100 IF NOT(=0)
110 GOTO 1000000
120 GOTO 1

```

Memory Management

In order to save the content and use of memory within your programs the following commands and functions have been added:

DPTR <var> Point to address <var> with 2 byte integer
←DPTR <var> Duplicate path of last-used <var> with the same use as a
DPTR <var> <val> Place variable <var> with <val> bytes from starting position <var> as new starting position <var>.
←DPTR <var> <val> Same as MOVE but copies existing variable
DPTR <var> <val> Move automatically assigns a value of zero to all elements of a memory array being dimensioned and will character to all elements of a string. The LDR is still variable and initially zero

The **DPTR** and **←DPTR** commands work like Turbo Basic's **POINT** and **POINT TO** commands additional to each other by using the **DPTR** with an **ADDRESS=** and **←DPTR** with **ADDRESS=**. This is very useful. Also, you can use the **DPTR** to save the string **FILE** command.

The **MOVE** and **←MOVE** commands can be used for moving characters or information from ROM or RAM, making some copies and for moving player variables. See CD at Page 4 for a very good done-by Ray Goring showing the graphics of the game.

System I/O

The system control of the IO system with the **ATARI**, for including the console, screen and keyboard. The additional commands and functions available are:

LOAD "Device" Binary loads the record - DOB option L, up to 255
GET <var> <val> Read <val>
PUT <var> <val> Write <val>
END "Device" Binary load and use the record - DOB option L
DELETE "Device" Delete the file record - DOB option D
DIR Dir display - DOB option A
GET What key press will accept value to a
 Same as **GET** AT, A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

DPTR "Device" Point to the record - DOB option L
LOCK "Device" Locks the file record - DOB option L
PUT Same as **PUT** command
RELEASE "Device" Release the file record - DOB option L
UNLOCK "Device" Unlock the file record - DOB option L
WRITE Write to the record 'a' from device 'a' into-type having path name.
WRITE Write to the record 'a' from device 'a' into-type having path name.
WRITE Write to the record 'a' from device 'a' into-type having path name.

Most of the disk commands, such as **DELETE**, will be implemented. You should be aware that very early releases of this is still under development. When using the commands here make a program you will have to provide all the record and copy checking plus any additional checking shown in program 1.

```

100 GOTO 1000000
110 GOTO 1000000
120 GOTO 1000000
130 GOTO 1000000
140 GOTO 1000000
150 GOTO 1000000
160 GOTO 1000000
170 GOTO 1000000
180 GOTO 1000000
190 GOTO 1000000
200 GOTO 1000000
210 GOTO 1000000
220 GOTO 1000000
230 GOTO 1000000
240 GOTO 1000000
250 GOTO 1000000
260 GOTO 1000000
270 GOTO 1000000
280 GOTO 1000000
290 GOTO 1000000
300 GOTO 1000000
310 GOTO 1000000
320 GOTO 1000000
330 GOTO 1000000
340 GOTO 1000000
350 GOTO 1000000
360 GOTO 1000000
370 GOTO 1000000
380 GOTO 1000000
390 GOTO 1000000
400 GOTO 1000000
410 GOTO 1000000
420 GOTO 1000000
430 GOTO 1000000
440 GOTO 1000000
450 GOTO 1000000
460 GOTO 1000000
470 GOTO 1000000
480 GOTO 1000000
490 GOTO 1000000
500 GOTO 1000000
510 GOTO 1000000
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790 GOTO 1000000
800 GOTO 1000000
810 GOTO 1000000
820 GOTO 1000000
830 GOTO 1000000
840 GOTO 1000000
850 GOTO 1000000
860 GOTO 1000000
870 GOTO 1000000
880 GOTO 1000000
890 GOTO 1000000
900 GOTO 1000000
910 GOTO 1000000
920 GOTO 1000000
930 GOTO 1000000
940 GOTO 1000000
950 GOTO 1000000
960 GOTO 1000000
970 GOTO 1000000
980 GOTO 1000000
990 GOTO 1000000
1000 GOTO 1000000

```

The Graphics Commands

The additional graphics commands found with Turbo Basic are:

CIRCLE <var> Plot a circle at <var> with radius
CIRCLE <var> <val> Plot an ellipse with horizontal radius and vertical radius <val>
CLS Clear the screen
CLS <val> Clear the screen speed <val> (0-255)
POINT <var> Plot the value

FILLTO *x,y* Fill in the right while drawing a bar from the bottom point *x* to *y*.

PAINT *x,y* Fill a closed shape as long as *x,y* is inside it.

TEXT *x,y,w* Print the word *text* located at *x,y* where the *x,y* co-ordinates defines the top left corner of the text to be printed.

If you open the following program you will see most of these statements used in three simple shapes on a graphics mode 7 screen.

```
10: BOX = 0:COLOR = 0
20:
30: DRAW BOX:PAINT
40: PLOTIN 10, 10:COLOR 10
50: CIRCLE 50, 50, 10
60: SARC 100, 50
70: TEXT 10, 10, "BOX 1"
80: PAINT 100
90: PLOTIN 10, 10:COLOR 10
100: CIRCLE 10, 10, 10, 10
110: PLOTIN 10, 10
120: TEXT 10, 10, "CIRCLE 1"
130: PLOTIN 100
140: SARC 10
150: SARC 10, 10, 10
160: PLOTIN 10, 10
170: SARC 10, 10, 10, 10
180: PLOTIN 10, 10
190: TEXT 10, 10, "SARC 1"
210: SARC 10, 10
```

Each bar at each of the shapes will explain the commands used. The line shapes are only printed in PLOT mode as of 10. The circle outline is done in color 1 as defined by the COLOR command line 10. The point-to-point line is done in color 10 using color 1 as a color defined by the PLOTIN line 10.

Shape 10 is a circle that was only partially filled. This is because the FILLTO command will only fill to the right while drawing a bar from the current location to *x,y*. This also shows how when the circle is drawn completely the current position of the cursor is at the top.

Shape 1 is a simple square drawn in color 1 and filled with color 1. Please flip the line drawn by the FILLTO command when the color defined by COLOR and not the color defined by PLOTIN.

All three examples included using the TEXT command. The command was not included in the current examples because each bar makes no fill space, following the TEXT command set. When using the command with text under the COLOR command this means the character is the highest bar, while with the PLOTIN command the COLOR command the color is the highest bar. Program 1 shows the use of the TEXT command for each standard graphics mode available, while program 2 is a banner screen using the TEXT command.

100: BOX = 0:COLOR = 0

```
110:
120: DRAW BOX:PAINT
130:
140: PLOT 100:10:10:10
150: CIRCLE 50, 50, 10
160: SARC 100, 50
170: TEXT 10, 10, "BOX 1"
180: PAINT 100
190: PLOTIN 10, 10:COLOR 10
200: CIRCLE 10, 10, 10, 10
210: PLOTIN 10, 10
220: TEXT 10, 10, "CIRCLE 1"
230: SARC 10
240: SARC 10, 10, 10
250: SARC 10, 10, 10, 10
```

Sound

The additional open commands are used with Turbo Basic 3.00.

DOOUND *x,y,d* This command prints to produce sound of sound modulation, thus replacing the replacement of these two values, "d" can either be 0 or 1, while "d" has a range of 0 to 255.

DOOUND
SOUND These will all sound.

Remember to use DOOUND *x,y,d* in front of the DOOUND and SOUND *x,y,d* in front of SOUND, otherwise strange things happen. Open the following program to see what I mean.

```
10: DOOUND 1, 100, 1, 1
20: SOUND 10
30: DOOUND 1, 10, 1, 1
40: PLOTIN 10
50: DOOUND 1, 10, 1, 1
```

Line 10 turns half the sound off while line 20 completes the job.

Screen Handling

Of all the added features of Turbo Basic the following two features (PLOTIN and PLOTOUT) are probably the most interesting. With these functions, it will be possible to produce good quality text placed for use in various games, that should require the standard applications and simple banner screens as shown by program 4.

←PLOTIN(*x,y,d*) Prints where *x,y* is the *x,y* of the top left corner of the text to be printed. *d* is the color of the text. *d* can be 0 or 1, while "d" has a range of 0 to 255.

←PLOTOUT(*x,y,d*) Same as PLOTIN but does not print the text.

←UNPLOTIN(*x,y,d*) Same as PLOTIN but does not print the text.

←UNPLOTOUT(*x,y,d*) Same as UNPLOTIN but does not print the text.

```
100: BOX = 0:COLOR = 0
110:
120: DRAW BOX:PAINT
130:
140: PLOTIN 10, 10
150: SARC 10, 10, 10
160: SARC 10, 10, 10, 10
170: SARC 10, 10, 10, 10, 10
180: SARC 10, 10, 10, 10, 10, 10
```

*This case also provides a good example of how to use strong hypothesis testing to determine if there is a significant difference in the mean of two groups.

It's like the birds, don't you see that? It is

Received 12 November 2003; accepted 12 November 2003

Time Headlines: Environmentalists Fight and Die for the Cause

DEBUG	Display all variables and values
DEBUG filename	Dump to device name, up to 255 characters
TRACE	Trace program during execution; source program code area indicator
TRACE- LIST n	Test trace mask-off Last program from step "n" is used
TRACE FROM	Trace to the first statement by the trace mask
END	Value of last trace number
END	Last test mask indicated at End of Page 2 to 5.
END- END n,j	End number later starting at line n, first number at j, increment at j. This function does not work for high-line numbers.
END- END n,j	Allows the break trap to be triggered by the TRACE command.
END	Tested-out would break has made

As well as these additional features, TheGo Basic provides more messages than we provided in English. The following are messages we provided with the new messages:

ERROR - 20 PRINT	Loop is properly exited.
ERROR - 20 PRINT#	PRINT with no corresponding
	WRITE.
ERROR - 24 MATH	LOOPS with no corresponding
	UNDO.
ERROR - 25 END	LOOP without corresponding DO.
ERROR - 26 NEXT	END is inside a loop.
ERROR - 27 RETURN	Over-running procedure.
ERROR - 28 EXEC	ENDPROC with no corresponding
	PROC.
ERROR - 30 OPEN	Procedure does not exist.
ERROR - 32	Label does not exist.

How: `TestRunner.run(class TestRunner, class TestCase, Object[] args)` is overloaded, e.g., when you go `TestRunner.run(TestRunner)` the second parameter is `TestRunner`, and when you go `TestRunner.run(TestCase)` the second parameter is `TestCase`.

Introduction and Study Objectives

100

100

Notified by their respective Public Health Agencies, you are the sole cause charged with notifying cases, by UNED_LEFT_Alt, the number of allowed variables has been increased to 250, see Health Data Basic table for details here.

When studying Java, these programs in Turbo Basic, sometimes do things very similar to the variable names and the array names of Pascal. If you do a `LIST OF THEM` (LIST, ENTER, ENTER) sequence, most of the studies will produce errors. The one we will focus on, had several.

Order Number: _____

They were up to the procedure on TurboTronic. I am not sure if in some areas there were any good looking for the application of the language. Because of the additional features increased speed and any shortcomings of the implementation of the Turbo, still as providing a low-level program TurboTronic without any shortcomings, say was TI the device.

A lot of the movement collections are from the documentation created and compiled by the Women's New York Street Union Group. That group created a lot of books for teaching the German Democratic law English, they offering all your essential details of German Traffic Rules, for the below.

The future success of the UK will depend on how well its business sector performs, especially with regard to innovation in the next decade.

Note: Website design language may change over time and we make changes without notice. We reserve the right to change the design of this website without notice.

Pressure Cooker

(Activision - \$9.95)

Short-Cuts-and-Steak made help in completing his hamburger orders. Each order must be filled with the proper combination of tomatoes, onions, ketchup and cheese. With each order performed you make it to the wrapping station to be waiting customer's help in fast service or the waiting.

The game "Pressure Cooker" was Activision's answer to "Burgerman", a game first listed for their fast-food game. "Pressure Cooker" was a top up on its, "Pressure Cooker" fell into the category - good game, though a few months too late. Almost all already released "Burgerman" for the VCS under the company name "Mikroworld. Activision, "Pressure Cooker" is one of Activision's first works with superb graphics and even better game play.

The game starts in the kitchen, where you, JACK, try to build your hamburger for the happy customer. (Sounds nice?) I guess you've never walked the kitchen line because the more server steps making and you never have time for a break or quick cigarette. Attached to the front you masterful feel when you are the tomato ball of the line and the hamburger must moving towards you. To determine your first order you have to check your customer's order sheet. A message of the order goes for order appears to the front every minute with each burger color-coded - red, green or blue. A red message under the customer's number is the next order. On the right side of your kitchen you are the fast-dispatcher. He, you don't like forward order when you need. The customer comes flying through you and not wait at the right order. Always know by your hand and catch the fly messages, come, ketchup or cheese and place it on the burger. The dispenser shows you the right of the line where the proper combination of messages are placed on the hamburger. Flying combinations of colors with line's red and message location left or right place is the right. (Remember to have someone else to a wait.) When you don't want a customer you press the first button and the customer will leave of line a minute and back into the food-machine.

When you have finished this and already completed your order the customer order board will turn. You now get the hamburger orders from the wrapping and packaging station. The machine is supplied with three separate colors coded automatic wrapping. The colors are red, green and blue, corresponding to those in the customer order board. Drop the right layer into the right machine and the completed order is wrapped and packed and out is done. Then you rush back to the kitchen where the next order is already rolling along waiting to be working.

You can give and lose places and you start with 10 performance points. Each score is 100 performance points. You lose 1 point by waiting long and by placing the same type of wrapping on a burger. You also lose 1 point if you drop a hamburger or

the wrong wrapping chosen (the wrapping station, a better 10 points are lost for every fast burger falling at the end of the 10-second bell. The time performance points every 1000 points.

After all a very colorful and fun in the game of game. Oh yes, a happy face and plays continuously or continuously randomly selecting the difficulty level.

Ghostbusters

(Activision - \$11.95)

Hey, anyone seen a ghost? Then please be someone come your area. Ghostbusters is available for the VCS. Ghostbusters the film after success which was a combination of the L.A. and New York (New York) (and many other) TV and the Christmas holiday, Ghostbusters are you the challenge of saving money by hunting down and catching ghosts.

The book has listed you 10000 to start your ghostbusting, supernatural and capture you make enough money hunting ghosts on the outside will show you down. Your ability more difficult you have to show enough money before the phone the great things reach critical mass at 1000.

As with all the releases of Ghostbusters produce a choice your equipment first, but unfortunately that in the money limitations of the VCS system you have to choose of vehicle. The vehicle available are as large as a car, a ghost vacuum, a car and as many as two traps.

When you have finished filling your vehicle, the shape of the car appears and you can start the great game by pulling your car from block to block capturing "ghosts". When you make a holding where ghosts enter into from there appear there are several traps you must follow in order to capture or many "ghosts" as possible, in the chosen position area. The only "ghost" that you every you will lose valuable points. You must also be careful that you don't do not get caught.

Every so often you will lose interest of your ghostbusting and soon strange things will happen. That includes disappearing "Masters" (the car) is approaching. If so the rest of your money and really not and must be disrupted (remember the score is the end of the line).

The game is a physical and difficult which contained and made when the car is lost (the machine critical mass at 1000). The game stage you may or may not be able to continue, depending upon whether you have enough funds.

The game has good conversion from the film excellent graphics and top. After quality with the lot many things included. Off course there some aspects in the movie, but you can't have everything.

NQO To DEGAS File Converter

By Gary Fieger

This program allows the user to convert DEGAS PLS (one professional format picture to NQO format pictures, and vice versa). Pictures of the NQO format are used in the game DEFENDER OF THE CROWN from Mamecade.

Operation of the program is by mouse and pull-down menus.

Notes on the NQO format

NQO pictures are coded better format, namely types and type is DEFENDER OF THE CROWN has only one picture of type 1 and this is only a black screen. I have included a routine to decode type 1 pictures just for completeness. The file format for type 1 pictures is:

Byte	Location	Value	Purpose
1	01	01	NQO type
2	02	00	1 bit and lower
3-25	03	00	Colors palette
26-end...	26	00	Coded picture

The coded picture is decoded by

Get a type

If type is 1 or 255

then

get next byte - this is the count

put original type on the screen count times

else

put type on screen.

The decoded types are put on the screen using the following loop:

for i=0 to 255

for j=0 to 255

put type at byte position i,j

next j

next i

..

Program Breakdown

10	Call TERMINATE if program is stopped
10-70	Check the low-resolution
80	Initialize game and variables
90-240	Wait loop to allow menu selection
100	Procedure INITIALIZE
100-210	Remove space for pictures
120	Get screen physical screen address of screen
120	Calculate physical address for picture screen
130-170	Save desktop colors
180-210	Get colors for menu screen
220-230	Save some screen colors

240-250	Initialize input and output path specifications
250-250	Get number
270	Procedure MOVEIN
280-700	Get menu selection and call required procedure
800	Procedure MOVEOUT
810-840	Get path, filename, and picture type to load
850-900	Remove old frame which picture type to load
910-990	Load the picture and hole screen
100	Get Physical screen address to picture screen
1000-940	Display picture
970-980	Wait for keypress or mouse button
990-1010	Store colors, set menu colors, and set physical screen address to menu screen
1020	Procedure MOVEIN
1030-1120	Get path, filename, and picture type to save
1130-1140	Remove old frame which picture type to save
1140-1200	Save picture in compressed format
1210	Procedure MOVEOUT
1220	Display the selected file, and choose file
1230-1240	Remove path, filename, and picture type from selection
1250	Procedure MAKETYPE
1250-1250	Remove the choicewindow contains a valid picture type
1400	Procedure SAVEHIGH
1400	Display picture resolution frame data to decide picture
1700	Type 1 format coding
1710-1710	Put colors to desktop
1710-1710	Code picture
1900-2010	Save coded picture
2020	Clear picture with message
2070	Procedure LOADHIGH
2080	Load resolution frame format
2080-2110	Put colors to desktop picture
2110-2140	Save screen memory
2150	Procedure SHOWHIGH
2160	Get the type of type picture
2210	Start of colors
2220	Start of coded picture
2240	Get picture colors
2240-2300	Call required decode picture routine
2310	Procedure SHOWNORMAL
2340	Start of colors
2370	Start of picture
2380	Get picture colors
2400-2410	Copy picture to screen
2420	Procedure SHOWTYPE
2430-2430	Decode picture to screen
2740	Procedure SHOWTYPE
2750-2750	Decode picture to screen
2840	Procedure TERMINATE
2850	Get desktop colors

Table 1

[illegible]

```

400  class Z, "type 1" (type1, type2)
410  type1: type1
420  type2: type2
430  if (type1 < type2) {
440  type1: type1
450  type2: type2
460  if (type1 < type2) {
470  type1: type1
480  type2: type2
490  if (type1 < type2) {
500  type1: type1
510  type2: type2
520  type1: type1
530  type2: type2
540  type1: type1
550  type2: type2
560  type1: type1
570  type2: type2
580  type1: type1
590  type2: type2
600  type1: type1
610  type2: type2
620  type1: type1
630  type2: type2
640  type1: type1
650  type2: type2
660  type1: type1
670  type2: type2
680  type1: type1
690  type2: type2
700  type1: type1
710  type2: type2
720  type1: type1
730  type2: type2
740  type1: type1
750  type2: type2
760  type1: type1
770  type2: type2
780  type1: type1
790  type2: type2
800  type1: type1
810  type2: type2
820  type1: type1
830  type2: type2
840  type1: type1
850  type2: type2
860  type1: type1
870  type2: type2
880  type1: type1
890  type2: type2
900  type1: type1
910  type2: type2
920  type1: type1
930  type2: type2
940  type1: type1
950  type2: type2
960  type1: type1
970  type2: type2
980  type1: type1
990  type2: type2

```


The ST Explored - Part 2

By Colin Hux

In the first issue of ST MAG I explained the necessary technical aspects of the values within the DEACTOP.BIN file. As an one responsible to my readers for corrections to information about the page I decided to go in my final computer magazine through through some books and find out the myself! (as most of them find out some approach, I therefore present the page)

Cap 41

41000000

This line defines the ASCII configurations. I really should have been this concluding all the information between my ST and the Mac I've been doing. The format here follows:

Features: where:

f = Display s = Bits per character

0 = Full
1 = Half

0 = 8
1 = 7

s = Link speed

0 = 9600 baud
1 = 4800
2 = 2400
3 = 1200

0 = 5

s = DEACTOP and EXTRACT

0 = None
1 = No
2 = STX
3 = Both

f = Parity setting

0 = None
1 = odd
2 = even

s = Link type

0 = On
1 = Off

Cap 42

42000000

This line defines the printer configuration. Each 16 characters identify the printer options within the format. Printer accuracy: (from space from left to right) are:

Printer type	0 = Dot matrix	1 = Daisy
Color	0 = Black & White	1 = Color
Resolution	0 = 1200	1 = 600
Quality	0 = Draft	1 = Medium
Printer port	0 = Printer	1 = Modem
Page type	0 = Print	1 = Single

When using to format please you will have to set the printer per line to 600 if you create full screen display when using the ALT KEY/keys.

Once again if any one has any more information on the DEACTOP.BIN file I will be very interested in hearing from you.

Product Update

Frontier Software will soon be distributing the new Super MegaSeries here in the UK. These drive units are designed to fit within the Mega ST unit and are available in 20, 30 and 40 Megabyte versions. The cost for the 20MB version is £109.95, 30MB - £129.95, while the 40MB price has yet to be announced. Also available from Frontier Software is SuperModem 2400 - a 2400 baud modem which works at £200. The modem is very compact (about one third the size of the Hayes SuperModem 2400) and supports synchronous operations at 300, 1200 and 2400. It is 100% Hayes compatible and support Bell 10301124, CCITT V21 and V22 bis protocols. To use this modem with the Atari 8-bit range you will require a RS-232 interface such as Atari's ISO, or P.E. Converter which is also available from Frontier Software.

Magnetics Media are ready to release an add-on graphics board called Packer for £499. VAT. They are

consists of a 32-bit, 43MHz processor with a display resolution of 1024x1024 with a palette of 16,777,216 colours, with 256 colours per line being possible.

Gastop have now available a book on CFA Basic costing £13.95 or £15.00 if purchased with the disk containing all the example routines.

Digital Research have published a guide to all the GEM based software, called The GEM Software Directory, priced at £2.95.

Capital Software Development Limited have a range of products available for the ST range of computers. These include ST Mega RAM boards which provide blister ship sockets, the ST Fast Chip which improves disk access times, an STROM programme, ST-Connectors 64 monitor cable, a Digital Score Compiler and a Digital vision and sound display.

User Group File

If you would like your User Group to be included within our User Group file, please send the following information to 8:16-Jobline at page 32

The group aims:

The current status, address and telephone number:
The number of group members (approximate if a recent club)

Membership Fee:

Meeting place (if any) and dates of meetings (eg. 1st Friday each month)

Names of any sub-committee and where they are:

Special features within the group:

and finally a copy of the map with a map showing us where you live.

Future issues of 8:16 will list the information supplied by each group. The map will be used to indicate where the groups are situated. As groups, they, together with you, will be able to discuss their own views on the state of their own programs.

Name:	Southwicks and North West User Group (SWP&NW)
Contact:	John Paine - 0202 670905
Meetings:	1st Friday every month at Kewest Community Centre, Farnham, Surrey. 8-10 (Open door - February-May, August and November)
Members:	Hardware and Software Developers.
Name:	London Area Computer Enthusiast (LACE)
Contact:	Glen Lander 145 Richmond Road, Lymington, London E11 4BT
Name:	Merwick User Group
Contact:	Kate West - 0402 441145 42 Catherine Road, Lutterham, Merwick PE16 2AG
Meetings:	1st Sunday of each month. Contact Kate for more info please.
Members:	9000000
Name:	Southwicks and North West User Group (SWP&NW)
Contact:	Glen Lander 145 Richmond Road, Lymington, London E11 4BT
Members:	9000000

Info

The program:

All the programs within 8:16 are written using either Turbo Basic or with the Amstrad Basic compiler. Turbo Basic can be purchased from several different retail outlets including, including Page 4 (0161 277000) who supply a personal record and additional programs in the disk. Alternatively you can use Turbo Basic and all the 8:16 programs within issues 1 and 2 of 8:16 direct from us for £1.95.

The 8:16 program within 8:16 is written in GFA Basic and can be obtained from 8:16 by sending a blank disk and 5p in cover handling and P&H

Subscriptions:

8:16 can be supplied on regular basis at a subscription rate of £5 for 4 issues. Please send us your name and address and the last number for subscription with comments with

Subscription Offer:

To encourage the use of Turbo Basic, 8:16 are offering a free disk to all new 8:16 subscribers. The disk contains Turbo Basic (compiler + compiler) (020 2.2) (including all the support modules) and some additional Turbo Basic programs. If you want the disk let us know when you subscribe.

Commercial Advertisement:

Rate - £10 Full page
£5 Half page

Contact John Paine - 0202 670905 for more details.

50 - 60 - 50

50 - 60 - 50 is a computer game written in BASIC assembler which includes the television control type frequency between 50 and 60. This program will be used with multiple TVs, in the display at times, it is a lot smaller and easier on the eye. The machine was written by Gary Payer using Turbo Basic (off) and should be complete in a 1982 file.

File: 50 - 60 - 50
Program: 50 - 60 - 50
Source: 50 - 60 - 50
Map: 50

File: 50 - 60 - 50
Program: 50 - 60 - 50
Source: 50 - 60 - 50
Map: 50

File: 50 - 60 - 50
Program: 50 - 60 - 50
Source: 50 - 60 - 50
Map: 50

Inside Turbo Basic Answers

1. This is a disk with some more
8:16-92

2. This is a disk



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